AMERICAN UNIVERSITY OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

OWEN GINGERICH, DIRECTOR

GIORGIO CONTINO, ASSOCIATE DIRECTOR

LIBRARY
APR 14 1958
WEATHER BUREAU

BEIRUT, LEBANON

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

DECEMBER 1957

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METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	58.9	56.5	58.4	57.9	21.2	17.5	16.8	20.6	17.9	18.4
2	56.5	57.3	61.3	58.4	22.3	13.5	19.6	20.4	14.9	18.3
3	61.5	59.8	60.0	60.4	19.0	12.8	15.5	17.1	15.2	16.3
4	57.4	57.1	59.7	58.1	16.4	12.0	14.8	14.3	14.8	14.6
5	59.7	57.8	57.2	58.2	16.5	8.2	12.4	14.3	14.6	13.8
6	54.7	55.3	56.5	55.5	14.7	10.1	10.9	14.2	13.6	12.9
7	58.2	56.8	58.6	57.9	14.7	8.5	13.7	12.5	11.9	12.7
8	59.6	59.2	61.3	60.0	14.0	8.9	10.6	13.0	10.2	11.3
9	62.7	64.4	67.7	64.9	14.1	10.9	11.3	13.7	11.8	12.3
10	69.5	68.8	70.2	69.5	17.7	14.4	14.9	17.5	14.8	15.7
11	69.8	69.1	69.9	69.6	18.7	13.6	15.5	17.7	15.0	16.1
12	68.8	68.4	68.0	68.4	18.3	14.0	15.1	17.6	16.5	16.4
13	68.6	67.4	68.0	68.0	18.7	14.5	15.2	18.0	17.1	16.8
14	67.5	66.7	67.7	67.3	18.5	15.5	15.5	18.2	17.0	16.9
15	67.9	65.7	65.1	66.2	19.9	16.5	17.0	19.1	17.4	17.8
16	64.4	63.3	64.0	63.9	20.8	17.4	18.0	20.1	18.2	18.8
17	64.0	63.9	63.5	63.8	20.6	16.4	18.4	20.2	17.6	18.7
18	61.4	59.1	58.5	59.7	20.5	17.6	18.0	19.2	18.5	18.6
19	59.4	60.1	58.8	59.4	21.3	12.2	18.0	18.5	14.4	17.0
20	60.6	62.0	63.8	62.1	16.7	11.9	13.3	15.6	13.1	14.0
21	65.1	65.6	66.9	65.9	17.1	11.6	13.6	13.4	12.6	13.2
22	67.6	67.0	67.7	67.4	16.6	12.6	13.5	16.0	13.9	14.5
23	66.8	65.9	67.0	66.6	17.1	11.0	13.9	16.7	12.5	14.4
24	66.7	65.2	66.6	66.2	15.7	10.6	11.8	15.6	11.5	13.0
25	67.4	66.9	67.4	67.2	16.4	12.1	13.2	16.3	14.4	14.6
26	68.2	67.4	67.5	67.7	16.5	12.5	13.8	16.0	13.7	14.5
27	67.7	67.0	68.0	67.6	16.2	11.0	13.2	15.4	14.5	14.4
28	68.7	67.4	68.1	68.1	15.3	11.7	12.3	15.0	12.6	13.3
29	69.0	67.9	68.3	68.4	15.6	12.6	13.0	14.9	13.0	13.6
30	66.3	65.4	65.1	65.6	17.5	13 2	14.7	17.0	14.9	15.5
31	62.8	60.4	60.3	61.2	18.3	14.4	14.3	17.3	17.1	16.2
	64.10	63.38	64.23	63.91	17.64	12.89	14.57	16.62	14.72	15.31

Barometer, range for month 770.2 mm. — 754.7 mm.
„ 71-yr. average for month 763.23 mm.
Thermometer, range for month 22.3°C — 8.2°C
„ 71-yr. average for month 15.99°C
Rain total for month 226.99 mm.
„ 71-yr average for month 185.45 mm.
„ Total, Sept. 1st. to end of month 417.94 mm.
„ 71-yr average. Sept. 1st. to end of month 374.27 mm.

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Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	12.8	11.7	11.3	11.9	66	49	54	56	4.4	645	15.00
2	11.1	14.8	15.5	13.8	49	60	91	67	4.7	566	11.35
3	14.2	15.3	12.6	14.0	80	80	69	76	3.2	303	14.40
4	13.0	13.5	12.3	12.9	76	82	73	77	1.9	628	14.55
5	14.2	13.2	9.2	12.2	96	80	57	78	0.5	991	25.23
6	12.1	9.1	11.1	10.7	92	57	72	74	2.2	967	53.00
7	10.1	11.2	12.3	11.2	64	75	88	76	0.2	595	25.02
8	11.9	10.7	11.0	11.2	80	72	90	81	2.4	259	19.53
9	11.9	10.4	11.1	11.1	87	68	79	78	5.6	356	7.80
10	12.0	13.3	12.0	12.4	70	66	72	69	5.1	447	0.25
11	12.1	12.2	11.6	12.0	69	61	69	66	0.3	264	
12	12.0	14.8	13.8	13.5	70	75	75	73	1.2	237	
13	9.9	14.6	15.0	13.2	58	71	78	69	8.3	354	
14	13.5	14.2	11.7	13.1	75	69	60	68	9.3	180	
15	8.6	14.6	10.5	11.2	45	68	51	55	9.2	117	
16	14.6	16.2	15.0	15.3	71	69	74	71	4.6	92	
17	12.7	16.6	15.0	14.8	62	71	74	69	7.0	163	
18	11.7	14.6	9.7	12.0	56	66	46	56	0.0	370	
19	15.0	12.9	12.8	13.6	72	59	78	70	3.5	554	5.80
20	12.6	12.5	10.4	11.8	82	71	70	74	6.7	373	9.61
21	9.4	12.3	12.4	11.4	61	78	87	75	5.4	338	4.75
22	9.7	11.5	10.8	10.7	64	64	68	65	9.1	224	
23	8.4	12.5	11.8	10.9	53	63	83	66	8.2	278	2.65
24	12.0	11.0	12.5	11.8	85	63	93	80	3.5	446	17.50
25	11.0	12.2	12.0	11.7	72	67	71	70	7.7	216	0.55
26	10.1	11.5	11.2	10.9	64	64	70	66	9.0	249	
27	10.8	11.0	9.5	10.4	71	62	58	64	6.9	423	
28	8.0	8.5	8.8	8.4	56	48	60	55	8.3	233	
29	9.0	9.0	10.0	9.3	60	54	66	60	9.0	259	
30	9.7	10.7	9.9	10.1	58	55	58	57	3.7	119	
31	8.6	11.0	7.8	9.1	53	55	38	49	4.4	166	
	11.38	12.50	11.63	11.82	68.3	65.9	70.1	68.1	5.04	368.13	7.32

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
71 vear averages are for period, 1875-1945

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METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				Beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	9cu-st	9cu-ci	10cu-ci	9.3	2se	3w	3se	light	
2	1ci-cu	10st	10ni	7.0	3sw	3sw	3se	,,	
3	10st	10st	10cu-st	10.0	2s	3sw	2sw	,,	
4	7st	10st	10cu	9.0	2e	3w	3sw	,,	W.p.m
5	10st	10st	10cu-st	10.0	2e	3sw	3sw	,,	
6	10ni	10st	10ni	10.0	4s	4sw	5ne	Moderate	W.a.m. Hail. a.m
7	7cu-st	10st	10cu-st	9.0	4w	3sw	3nw	sligh	
8	8cu-st	10cu-ni	10ni	9.3	2se	2w	2sw	light	
9	9st	4cu	10cu-ni	7.7	2se	2sw	2sw	,,	
10	9st	3cu-st	5ci-st	5.7	2s	2w	2w	,,	
11	10st	10st	3ci	7.7	2s	2sw	2sw	light	
12	10ci	10st	6ci-st	8.7	2s	2ne	2se	,,	
13	0	0	2ci	0.7	2e	3ne	3ne	,,	
14	0	0	2ci	0.7	1ne	2ne	1ne	,,	D.a.m
15	0	0	2ci	0.7	1s	1nw	1nw	calm	
16	10ci	10ci-st	3ci	7.7	1sw	1nw	1nw	light	D.a.m
17	9ci	2ci-st	3ci	4.7	2sw	1e	2ne	,,	D.a.m.p.m
18	10st	10st	10st	10.0	2sw	2ne	2ne	,,	D.a.m
19	10st	9cu-st	7cu-st	8.7	2sw	2sw	2nw	,,	Tr.a.m
20	10cu-st	10cu-st	3ci-st	7.7	2sw	2n	2ne	,,	
21	3cu-st	10st	10st	7.7	2se	2s	2sw	light	
22	4ci-st	3cu-ci	2ci	3.0	2se	2sw	2nw	,,	D.a m
23	0	3cu-st	6st	3.0	2s	2w	2nw	,,	D.a.m
24	10ni	4cu-st	10ni	8.0	3sw	2sw	1sw	,,	
25	1cu	10cu-st	8ci-st	6.3	2s	2w	2sw	,,	
26	7ci-st	5cu-ci	8st-ci	6.7	1s	2nw	1nw	light	
27	3cu-st	7ci-cu	3ci-st	4.3	2se	2n	2ne	,,	
28	0	2ci-st	10ci-st	4.0	1s	1nw	1nw	,,	
29	1ci-st	1ci	4ci	2.0	2e	3sw	1w	,,	D.a.m.p.m
30	10st	9ci	8ci	9.0	1sw	1nw	2nw	,,	
31	10cu-ci	9ci-st	10ci-st	9.7	1e	2ne	2n	,,	
	mean			6.71					

Abbreviations : G = gale; H = haze; M = mist ; T = thunderstorm ; D = dew
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	1	5	6	10	8	1	0	0	31
14:30	2	5	1	0	1	11	6	5	0	31
20:30	1	7	0	3	0	9	2	9	0	31
Total	3	13	6	9	11	28	9	14	0	93

Number of days with rain 16, fog 0, thunderstorms 0, gale. 0
71 yr. av. number of days with rain during month 13.4
Time of reading minus 2 hours equals G.C.T